(19) World Intellectual Property Organization

International Bureau





(43) International Publication Date 23 June 2005 (23.06.2005)

PCT

(10) International Publication Number WO 2005/057124 A1

(51) International Patent Classification⁷:

F42B 1/00

(21) International Application Number:

PCT/SE2004/001821

(22) International Filing Date: 8 December 2004 (08.12.2004)

(25) Filing Language: Swedish

(26) Publication Language: English

(30) Priority Data:

0303301-6 9 December 2003 (09.12.2003) SE

(71) Applicant (for all designated States except US): EU-RENCO BOFORS AB [SE/SE]; S-691 86 Karlskoga (SE).

(72) Inventor; and

(75) Inventor/Applicant (for US only): DAHLBERG, Johan [SE/SE]; Kungsgatan 2, S-702 11 Örebro (SE).

(74) Agent: LUNDAHL, Kjell; Saab Bofors Support AB, Patents and Trademarks, S-691 80 Karlskoga (SE).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

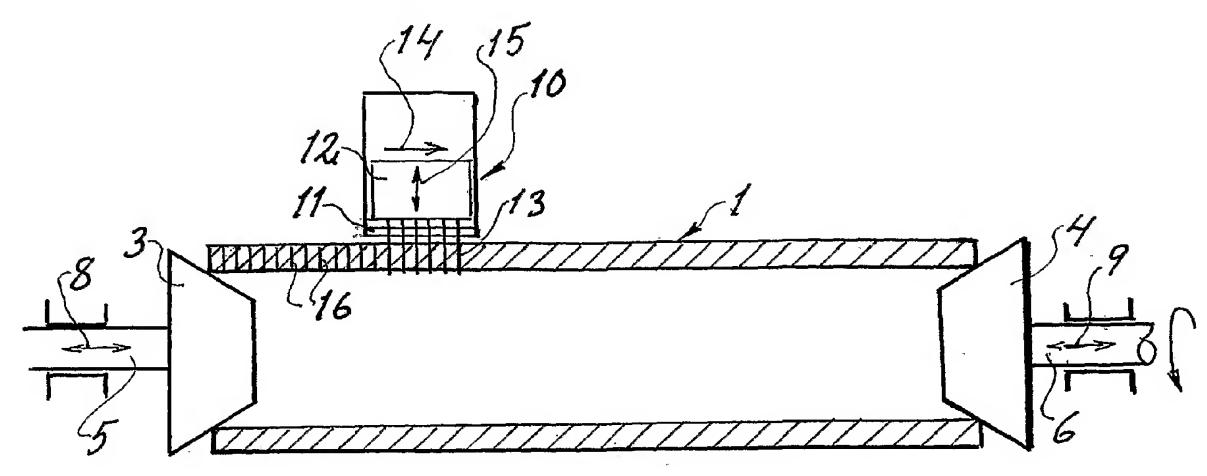
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: METHOD AND ARRANGEMENT FOR PRODUCING PROPELLANT FOR CHARGES WITH HIGH CHARGE DENSITY AND HIGH PROGRESSIVITY



(57) Abstract: The present invention relates to a method and an arrangement for the production of radially perforated, cylindrical propellant tubes (1, 23, 31). The invention is based on the underlying idea that the respective propellant tube (1, 23, 31) must be fixed and centred between its own open ends and thereafter to be perforated in stages in a large number of consecutive perforation operations by means of one or more pins (13) capable of displacement in a pin die (10) relative to the propellant tube towards and at least through the major proportion of the cylindrical wall of the propellant tube. Also included in the invention is the requirement for the displacement, between each perforation operation, of the propellant tube and the pin die (10) used for the preparation operation in such a way relative to one another that the propellant tube, after a complete perforation operation, shall be covered in its entirely by perforations (32, 33, 35, 36), which lie at a predetermined e-dimension distance from one another.